INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	09/978,134				
Confirmation Number	4196				
Filing Date	10/15/2001				
First Named Inventor	Bradford Evan Gliner				
Group Art Unit	3762				
Examiner Name	Roderick D. Bradford				
Attorney Docket No.	33734-8021US				

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			U.S. PATENT DOCUME	ENTS	
EXAMINER INITIALS	Cite No.	U.S. Patent Document NUMBER Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
RO_	AA	5,713,922	King	02/03/98	
	AB	5,215,086	Terry, Jr. et al.	06/01/93	
	AC	5,716,377	Rise et al.	02/10/98	
	AD	5,975,085	Rise	11/02/99	
	AE	6,066,163	John	05/23/00	
	AF	3,650,276	Burghele et al	03/21/72	
	AG	4,140,133	Kastrubin et al.	02/20/79	
	AH	4,542,752	DeHaan et al.	09/24/85	
	AI	4,607,639	Tanagho et al.	08/26/86	
	ΑJ	4,646,744	Capel	03/03/87	
	AK	4,844,075	Liss et al.	07/04/89	
	AL	4,865,048	Eckerson	09/12/89	
	AM	5,002,053	Garcia-Rill et al.	03/26/91	
	AN	5,031,618	Mullett	07/16/91	
	AO	5,092,835	Schurig et al.	03/03/92	
	AP	5,143,089	Alt	09/01/92	/
	AQ	5,169,384	Bosniak et al.	12/08/92	
	AR	5,304,206	Baker, Jr. et al.	04/19/84	
	AS	5,358,513	Powell, III et al.	10/25/94	
	AT	5,370,672	Fowler et al.	12/06/94	
	AU	5,417,719	Hull et al.	05/23/95	
	AV	5,537,512	Hsia et al.	07/16/96	Tig
	AW	5,540,736	Haimovish et al.	07/30/96	Tet one
	AX	5,411,540	Edell et al.	05/02/95	上 ・ 京 至 紀代
	AY	5,549,655	Erickson	08/27/96	6
	AZ	5,885,976	Sandyk	03/23/99	MTE; 20
	ВА	5,886,769	Zolten	03/23/99	2 7 2002 CENTER 113700
	ВВ	5,904,916	Hirsch	05/18/99	8 0
	ВС	5,938,688	Schiff	08/17/99	



Approved for use through 10/31/99. OMB 0651-0031
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Q.Q.	BD	5,591,216		Tester	rman et al.		01/07/9	97	
	BE	5,593,432		Crowt	ther et al.		01/14/9	97	
	BF	5,628,317		Starke	ebaum et al.		05/13/9	97	
	BG	5,683,422		Rise			11/04/9	97	
	ВН	5,702,429		King			12/30/9	97	
	BI	5,711,316		Elsber	rry et al.		01/27/9	98	
	ВЈ	5,713,923		Ward	et al.		02/03/9	98	
	ВК	5,735,814		Elsber	rry et al.		04/07/9	98	
	BL	5,752,979		Benab	oid		05/19/9	98	
	ВМ	5,782,798		Rise			07/21/98 08/11/98 08/25/98		
	BN	5,792,186		Rise					
	ВО	5,797,970		Pouvr	eau				
	BP	5,814,014		Elsberry et al.			09/29/98		
	BQ	5,814,092		King			09/29/9	98	
	BR	5,824,021		Rise			10/20/9	98	
	BS	5,832,932		Elsber	rry et al.		11/10/9	98	
	ВТ	5,833,709		Rise e	et al.		11/10/9	98	
	BU	5,843,148		Gijsbe	ers et al.		12/01/98		
	BV	5,843,150		Drees	sen et al.		12/01/9	98	
	BW	5,893,883		Torge	rson et al.		04/13/9	99	
	BX	5,913,882		King			06/22/99		
	BY	5,925,070		King	et al.		07/20/9	99	
	BZ	5,941,906		Barre	ras, St. et al.		08/24/9	99	
	CA	5,964,794		Bolz e	et al.		10/12/9	99 8	
	СВ	5,978,702		Ward	et al.		11/02/9	99	
	СС	6,011,996		Gielei	n et al.		01/04/0		
	CD	6,018,682		Rise			01/25/0	00	
	CE	6,021,352		Christ	topherson et al.		02/01/0	00 3	
	CF	6,026,326		Bardy			02/15/0	00 3 8	
	CG	6,042,579		· · · · · · · · · · · · · · · · · · ·	rry et al.		03/28/0		
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1	СМ	6,104,	956		Naritoku et al.				000			
	CN	6,104,	960		Duys	ens et al.		08/15/	′00			
	со	6,122,	548		Stark	ebaum et al.		09/19/	'00			
	CP 6,126,657				Edwa	ards et al.		10/03	00			
	CQ 6,128,537				Rise			10/03	′00			
CR 6,152,143					Edwards Silverstone				/00			
	CS 6,161,044								12/12/00			
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R -0.	CY	pp. 95	6-963 (Fe	bruary 2	000)	_					<i>C.</i>	
R.B.	cz					n of Plasticity in Vol. 18, No. 3, pp.				Ischemic No	erve Block,"	

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Sheet	_all	4	of	6	Attorney Docket No.	337348021US						
E IRI	25	OLIVERI et a	l., "Paired trans	scranial magneti	ic stimulation protocol	s reveal a pattern of inhibition and						
L.S.	DA	facilitation in t	he human parieta	al cortex," The Jo	ournal of Physiology, 52	29.2, pp. 461-468 (2000)						
[DB	· ·	_	-	Cortical Movement Rep 1117-1123 (February 19	presentation Induced by Practice," The 998)						
	DC	Treated with Rehabilitation,	Constraint-Indu Vol. 80, No. 1, p	ced Movement pp. 4-7 (2001)	Therapy," American	n in Upper-Limb Stroke Hemiplegia Journal of Physical Medicine &						
	DD		GORDON et al., "Parameters for direct cortical electrical stimulation in the human: histopathologic confirmation," Electroencephalography and clinical Neurophysiology, Vol. 75, pp. 371-377 (1990) CRAMER, S.C. and BASTINGS, E.P., "Mapping clinically relevant plasticity after stroke," Neuropharmacology Vol. 19, No. 5, pp. 842-851 (April 2000)									
	DE											
	DF		C.J. and BOAF Vol. 48, No. 1 (J		ogical Plasticity: The	Future of Science in Neurosurgery,"						
	DG					in the human motor cortex by weak . 527.3, pp. 663-639 (2000)						
	DH				Magnetic Stimulation of 802-808 (August 2000)	on Movement-related Cortical Activity 0)						
	DI		al., "Reorganiza Neurology, Vol. 5		or cortex in a patient with congenital hemiparesis and mirror (2000)							
	DJ		., "Introduction 3, No. 3, pp. 575-		the human motor cortex by paired associative stimulation,"							
	DK	FEYS et al., "V (October 1999)		ensory and motor	r evoked potentials in p	redicting arm recovery after a stroke,"						
	DL					nal input to the voluntary activation of Res., Vol. 129, pp. 559-572 (1999)						
	DM	ł .		•	ter stroke Prognostic vsiology, Vol. 39, pp. 40	yield of early transcranial magnetic 05-410 (1999)						
	DN		on Tasks Measu			tstroke Hemiplegic Patients: Effects of rch. Phys. Med. Rehabil., Vol. 81 pp.						
	DO		C.C. and NICOLI 5435, Issue of 17			Decade of Progress?," Neuroscience,						
	DP	SANES, J.N. a 415 (2000)	and DONOGHUE	E, J.P., "Plasticity	y and Primary Motor C	Cortex," Annu. Rev. Neurosci. 23:393-						
	L	<u> </u>										



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	Substi	_	n 1449A/PTO			Application Number	09/978,134		\Box					
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VEL	~She	in ME	5	of	6	Attorney Docket No.	337348021US		\sqcap					
1	C TH		FRANZINI et	al "Reversal of	thalamic hand s		motor cortex stimulation	" Journal of	┌┸					
Q	ß.	DQ		Neurosurgery 93:873-875 (2000)										
•		DR	Stroke," Stroke	WALKER-BATSON et al., "Amphetamine Paired With Physical Therapy Accelerates Motor Recovery After Stroke," Stroke, Vol. 26, No. 12, pp. 2254-2259 (1995)										
		DS	NETZ et al., " 1579-1586 (19		of motor output i	n the non-affected hen	nisphere after stroke," B	rain, 120, pp./						
		DT	SANES, "The (2000)	Relation between	Human Brain A	activity and Hand Move	ements," NeuroImage 11	, pp. 370-374	·					
		DU	SANES, J. and 23:393-415 (20		J.P., "Plasticity a	nd Primary Motor Cor	tex," Annual Review of	Neuroscience	/					
		DV	SANDKÜHLE	R, "Learning and	I memory in pain	pathways," Pain 88, pp	p. 113-118 (2000)	./						
		DW			_	ne on Functional Record. 27, No. 7, pp. 1211-1	very in Poststroke Hemip 214 (July 1996)	legic Patients						
		DX		BAUER, B.L., ca, Suppl. 52, pp.		nn Stimulation (DCS)): Cost to Benefit An	alysis," Acta						
		DY	KOPELL et al pp. 20-31 (Oct		ng Evolution of	Psychiatric Neurosurge	ery," CNS Spectrums, Vo	ol. 5, No. 10,						
		DZ	REZAI, "Neur	ostimulation," No	eurological Resea	rch, Vol. 22, No. 3 pp.	235-273 (April 2000)							
		EA	recovery of arr pp. 316-328 (1	m and hand functions (1996)	tion after stroke,'	" Electroencephalograp	nscranial magnetic stimu hy and Clinical Neuropl	hysiology 101	7					
		ЕВ		et al., "Mechanisi . 97, No. 7, pp. 36			man motor cortex," Proc	c. Natl. Acad.						
		EC	Test of Upper (January 2001)	Extremity Funct	ion in Patients V	Vith Stroke," Arch. Ph	ction Research Arm Tes ys. Med. Rehabil., Vol.	82 pp. 14-19 A	/					
		ED	Arch. Phys. M	ed. Rehabil., Vol.	81, pp. 1541-15	46 (December 2000)	er Stroke Caused by Bria		,,					
		EE	ZIEMANN et The Journal of	al., "Modulation Neuroscience 18	of Plasticity in I (3):1115-1123 (F	Human Motor Cortex a ebruary 1998)	nfter Forearm Ischemic N	Nerve Block,"						
	I	EF				n for Phantom Limb Pasurgery, Vol. 49, No. 3	in: A Functional Magne (March 2001)	tic Resonance	تر					

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لبيج	& TRI OF		COHEN et al.,	"Studies of Neur	roplasticity With	Transcranial Magnetic	Stimulation," The Journal of Clinical	\nearrow					
Q	.B.	EG	Neurophysiolog	gy, Vol. 15, No. 4	(1998)								
	1	ЕН		SHIMIZU et al., "Therapeutic efficacy of transcranial magnetic stimulation for hereditary spinocerebellar degeneration," Tohoku Journal of Experimental Medicine, 189(3):203-11 (November 1999)									
		EI	LIEPERT et al. (2000)	., "Treatment-Inc	luced Cortical R	eorganization After Stro	oke in Humans," Stroke, 31:1210-1216						
		EJ		SCHIFF et al., "A neuromodulation strategy for rational therapy of complex brain injury states," Neurological Research, Vol. 22 pp. 267-272 (April 2000)									
,		EK		GLADSTONE et al., "Enhancing Recovery after Stroke with Noradrenergic Pharmacotherapy: A New Frontier?," Can J. Neurol. Sci., Vol. 27, No. 2 (May 2000)									
		EL				ulation of Human Corrophysiology, Vol. 15, N	rtical Excitability With Transcranial No. 4 (1998)	_					
		ЕМ	PASCUAL-LE 207-217 (1999)		nscranial magne	etic stimulation and neu	roplasticity," Neurophycologia 37, pp.	<u> </u>					
		EN	STEFAN et al. 123, pp. 572-58		lasticity in the h	numan motor cortex by	paired associative stimulation," Brain,						
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